

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 110550/gbc	FOR FURTHER ACTION		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/AU2004/000089	International filing date (<i>day/month/year</i>) 22 January 2004	(Earliest) Priority Date (<i>day/month/year</i>) 22 January 2003	
Applicant SIRTEX MEDICAL LIMITED et al			

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.
2. ☐ **Certain claims were found unsearchable** (See Box No. II).
3. ☐ **Unity of invention is lacking** (See Box No. III).
4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.
☐ the text has been established by this Authority to read as follows:
5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.
☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. With regard to the **drawings**,
 - a. the figure of the drawings to be published with the abstract is Figure No.

☐ as suggested by the applicant.
☐ as selected by this Authority, because the applicant failed to suggest a figure.
☐ as selected by this Authority, because this figure better characterizes the invention.
 - b. ☒ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/000089

A. CLASSIFICATION OF SUBJECT MATTER Int. Cl. ⁷ : A61N 2/10 According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) A61N 2/10 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPAT, JAPIO, CAPLUS (nano+ and magnet+) and synonyms					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
X	US 6048515 A (KRESSE) 11 April 2000. See whole document.	1-18			
X	US 5427767 A (KRESSE) 27 June 1995. See whole document.	1-18			
X	US 6541039 B1 (LESNIAK) 1 April 2003 & DE 19726282 A, published 24 December 1998. See whole document.	1-18			
X	WO 2001/037721 A (THE RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK) 31 May 2001. See whole document.	1-18			
X	EP 1175237 B (MAGFORCE APPLICATIONS GMBH) 24 September 2003 & DE 19921088 A, published 2 November 2000. See the claims.	1-18			
X	Derwent Abstract Accession No. 98-053288/06 Class A96 B07 D16 DE 19624426 A (BREGEMANN) 2 January 1998. See abstract.	1-18			
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex					
<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed </td> <td style="width: 33%; vertical-align: top;"> "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family </td> <td style="width: 33%;"></td> </tr> </table>			* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family				
Date of the actual completion of the international search 9 March 2004		Date of mailing of the international search report 29 MAR 2004			
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929		Authorized officer JAMES DZIEDZIC Telephone No : (02) 6283 2495			

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/000089

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/0027262 A1 (PARK) 7 March 2002. See whole document.	1-12
X	US 2003/0168640 A1 (KIRSTEN) 11 September 2003 & WO 2002/012409.A published 14 February 2002. See whole document.	1-12
X	Jordan, Andreas et al., Magnetic fluid hyperthermia (MFH): Cancer treatment with AC magnetic field induced excitation of biocompatible superparamagnetic nanoparticles Journal of Magnetism and Magnetic Materials (1999), 201, 413-419.	1-18
X	Pouliquen, Daniel. Magnetite-dextran nanocapsules : Preparation and properties. Microspheres, Microcapsules & Liposomes (2001), 3(Radiolabeled and Magnetic Particulates in Medicine & Biology), 495-523.	1-18

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/000089

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member					
US	6048515	AU	29210/95	CA	2195318	CN	1155844
		DE	4428851	EP	0773796	HU	77993
		IL	114713	IL	131562	NO	970468
		US	6576221	US	2002141943	WO	9604017
		ZA	9506005				
US	5427767	AU	16184/92	CA	2068632	DE	4117782
		EP	0516252	IE	921595	IL	101929
		JP	7122410	NO	921767	NZ	242669
		ZA	9203299				
US	6541039	DE	19726282	EP	1001811	US	2003180370
		WO	9858673				
WO	0137721	AU	43051/01	US	6514481		
EP	1175237	AU	56717/00	CA	2368751	DE	19921088
		WO	0066192				
DE	19624426						
US	20020027262						
US	20030168640						
END OF ANNEX							